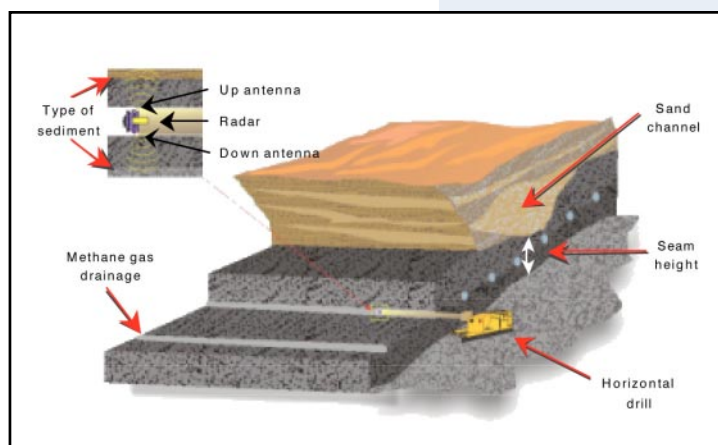


Radar Mapping of Geologic Structures from Drills

- Mining of smaller/deeper deposits requires advance drilling to determine geologic structure and assess conditions



- Borehole radar is prototype technology for mapping anomalous geologic structures.
- Borehole radar unit is integrated into drill heads
 - Drillstring contains radio data transmission link
 - radar unit generates its own power
 - radar unit capable of withstanding severe environments

- Technology eliminates costly need to drill to floor and roof of boundary, with significant savings in electrical energy costs
- Possible urban area use for trenchless excavation to install/replace utilities

Commercialization Started



Horizon, Inc.

Raton, New Mexico



Institute for Measuring Systems Research
(NIIS)

Nizhny Novgorod, Russia



Kansas City, Missouri